

### Abstract

A secondary sealing element comprises a base body (12) made of a synthetic material and comprising a base portion (13) and a seal portion (14) which each comprise coaxially aligned, axially adjacent through bores (17, 31) for the passage of a component, and an annular disc element (25) accommodated in the base portion and comprising a through bore (30) coaxially aligned with the through bores in the base and seal portions and being made of a material which differs from that of the base body. In the unloaded state, the through bore (30) of the annular disc element (25) has a radial dimension  $d$  which is greater than that  $D_2$  of the through bore (31) in the seal portion (14) and smaller than that  $D_1$  in the base portion (13) of the base body (12). The annular disc element consists of a carbon material. An important field of application for the secondary sealing element is that of mechanical face seals for sealing relatively moveable components.

Fig. 2